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Owens Lake core data

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Name	Date modified	Time modified	Size MB
Extension			
Z:\Uploadables and Archive\USGS\Benson data\Owens Lake Core Data\14C ages OL84 and 90.xlsx	02.03.2014	17:04:46	0.01
OL90-1 and 2 magsus.xls	05.01.2018	17:39:58	0.11
OLclaychemtable.xlsx	09.11.2017	18:03:10	0.05
Owens Lake Clay Chem.xls	05.01.2018	17:21:16	0.05
Owens Lake OL84B and OL90-1 and 2 isotope and carbon data.xls	05.01.2018	17:32:14	0.18

In the Owens Lake core data folder:

¹⁴C ages for cores OL84 and OL90 were reported in:

Benson, L.V., Burdett, J.W., Kashgarian, M., Lund, S.P., Phillips, F.M., and Rye, R.O., 1996, Climatic and hydrologic Oscillations in the Owens Lake basin and adjacent Sierra Nevada, California: Science, vol. 274, p. 746-749.

Benson, L.V., 1999, Records of millennial-scale climate change from the Great Basin of the Western United States: In Clark, P., Webb, R., Keigwin, L., eds., Mechanisms of Global Climate Change at Millennial Time Scales, American Geophysical Union Monograph 112, p. 203-225.

Benson, L., 2003, Western Lakes: Chapter 9 in Gillespie, A. R., Porter, S. C., & Atwater, B., eds. The Quaternary Period in the United States: Developments in Quaternary Science, vol. 1 (Elsevier), p. 185-204.

Benson, L., Lund, S., Negrini, R., Linsley, B., and Zic, M., 2003, Response of North American Great Basin lakes to Dansgaard-Oeschger oscillations: Quaternary Science Reviews vol. 22, p. 2239-2251.

Benson, L.V., Burdett, J.W., Lund, S.P., Kashgarian, M., and Mensing, S., 1997, Nearly synchronous climate change in the Northern Hemisphere during the last glacial termination: Nature, vol. 388, p. 263-265

Magnetic susceptibility data for OL90-1 and 2 were reported in:

Benson, L.V., 1999, Records of millennial-scale climate change from the Great Basin of the Western United States: In Clark, P., Webb, R., Keigwin, L., eds., Mechanisms of Global Climate Change at Millennial Time Scales, American Geophysical Union Monograph 112, p. 203-225.

Owens Lake clay chemistry data were reported in:

Benson, L.V., May, H.M., Antweiler, R.C., Brinton, T.I., Kashgarian, M., Smoot, J.P., and Lund, S.P., 1998, Continuous lake-sediment records of glaciation in the Sierra Nevada between 52,600 and 12,500 ¹⁴C yr B.P.: Quaternary Research, vol. 50, p. 113-127.

General Comment: In most cases an age model based on ¹⁴C analyses is not included with the data sets although ones were created for the original publications. Given the general problems with ¹⁴C ages in the lakes of the Great Basin, age models based on paleomagnetic secular variation (PSV) are much preferred. However the original ¹⁴C data are included below so that the reader may create their own age models. Most of the calibrated ages in this data base have been done more recently than the times of original publication so they may not exactly match the dates in the publications.